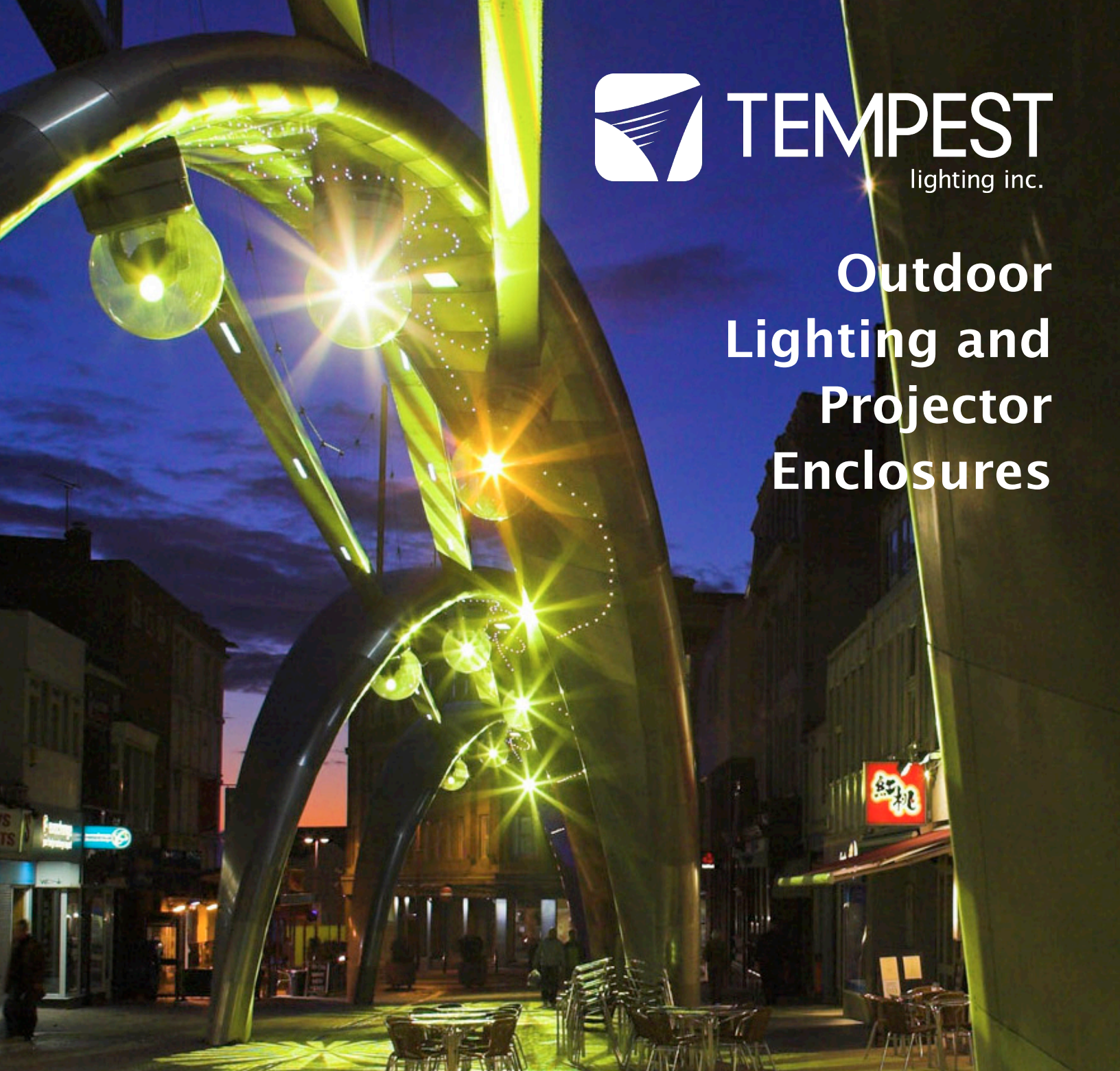




TEMPEST
lighting inc.

Outdoor Lighting and Projector Enclosures



www.tempestlighting.com

Take 35 Moving Lights, add Tempest enclosures, and watch your business *GROW!*

Cover Our Story

The City of Blackpool, a coastal resort in Northern England, had a problem. Visitors were scarce, and local businesses were suffering.

What to do?

They hit on the innovative solution of making the downtown pedestrian area a fun place to walk around at night – using sound and light.

The dramatic arches and poles that now grace the pedestrian precinct have lit up Blackpool beautifully. The visitors are coming back, staying longer, and spending money. Local tax takes are up, and the venture is paying for itself.

Tempest Tornado 2300 enclosures are protecting the lights from the icy gales and heavy rain that blow in from the Irish sea in the off-season, keeping them snug through the winter, so they can boost the Blackpool tourist trade all summer long.



The Tempest Tornado 2300 enclosure protects 1200W and 1500W Moving Head Lights in every climate.

Tempest Lighting is the world's leading manufacturer of outdoor enclosures for high-powered lighting equipment and digital projectors.

For years, Tempest enclosures have been protecting automated lights in theme parks, cityscapes and on cruise ships, operating 24/7 in every climate imaginable.

Tempest's patented Digital Enclosure Control (DEC™) technology keeps your equipment cool when it's hot, warm when it's cold, and never, ever, allows deadly condensation to form.

Advanced projectors and lighting fixtures used outdoors without protection might survive for weeks or months. Inside a Tempest enclosure, you can expect the same lifetime for your equipment (and your lamp!) as if it were being used indoors. In some cases it's actually better.

When the Tempest enclosure senses that the lamp is on, powerful fans change the air inside the enclosure every couple of seconds, preventing heat buildup. When the lamp is off, we actively control internal temperature and humidity, to maintain a safe minimum operating temperature and prevent condensation.

Tempest enclosures are easy to install and easy to use, with minimal maintenance requirements.

So next time you want to boost traffic, bring a stadium to its feet, or light an outdoor venue, remember Tempest outdoor enclosures – whatever the weather.

All Tempest enclosures are manufactured in the USA.

Tornado 2000-2300 Moving Light Enclosures



Touchdown! Tempest Tornado is a weather-resistant enclosure designed to provide optimum lifetime and operating conditions for high-powered automated luminaires in exterior locations. These Tornadoes come in three sizes and three orientations, for all moving head lights from 575W to 1,500W.

Tornado 2000

Globe diameter:	30"/762
Base Material:	Aluminum
Orientation:	↑ ↓ →
Fixture Power:	800W
Part #s:	
2000.IN	230V
2000.US	208V*
Suffix V	Base Up
Suffix H	Horizontal

Tornado 2200

Globe diameter:	36"/914
Base Material:	Aluminum
Orientation:	↑ ↓ →
Fixture Power:	800W
Part #s:	
2200.IN	230V
2200.US	208V*
Suffix V	Base Up
Suffix H	Horizontal

Tornado 2300

Globe diameter:	36"/914
Base Material:	Aluminum
Orientation:	↑ ↓ →
Fixture Power:	1,500W
Part #s:	
2300.IN	230V
2300.US	208V
Suffix V	Base Up
Suffix H	Horizontal

Standard base color is pearlescent gray. Other colors to order.

** 120V available to order*

Tornado comes with Tempest's revolutionary DEC3.2™ control system – all the security and reliability of Digital Enclosure Control generations 1 and 2, but now featuring DMX control, user-definable temperature and humidity settings, and a nifty new control

panel, so you know exactly what's going on inside every enclosure.

Best of all, DEC3.2 is shipping now with optional RDM remote monitoring, so you know exactly what's going on – without climbing a ladder. DEC3.2 even features a lamp

hour counter, so you know when to relamp – before the lights go out...



Standard product is for base-down operation (picture above and figure 1). For base-up operation, add suffix V to part number, eg 2300.USV (figure 2). For Horizontal operation, add suffix H (figure 3).

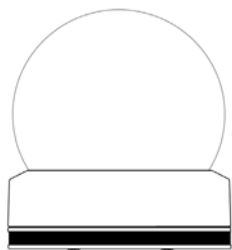


fig. 1 — Base Down Operation.
Use standard part number.

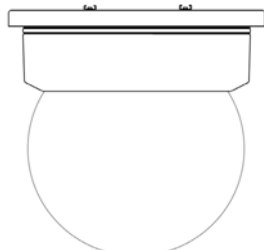


fig. 2 — Base Up Operation.
Add part number suffix V

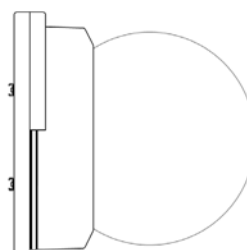


fig. 3 — Horizontal Operation.
Add part number suffix H

For detailed specifications and manuals on all Tempest enclosures, go to www.tempestlighting.com

Tornado 2400 Moving Light Enclosure



*Pioneer Amphitheater, Palo Duro
Canyon State Park, Texas.
Lighting Design: Jack Jacobs
Projection Design: Blaine Bertrand
High End Systems DL3s in Tornado
2400s - projection onto water screen.*

This is the Big One - originally designed for High End Showgun and DL3. Perfect operating conditions for really high-powered automated luminaires in all exterior locations.

Tornado 2400 may now also be used with Barco DML1200 and Robe DS7000 moving head projectors.

Tornado 2400

Globe diameter:	42"/1067
Base Material:	Fiberglass
Orientation:	↑ ↓
Fixture Power:	2,500W
Control:	DEC3.2™
Part #s:	
2400.IN	230V
2400.US	208V
Suffix D	DML 1200, Robe 7000



*Hengda Hotel, Guangzhou,
China. 79 Tempest Tornado
2050 and 2300 enclosures
with Coemar heads.*

Tornado 2050 Moving Light Enclosures



They're getting more powerful every day — some 300W spot and LED wash fixtures are beating traditional 700W and even 1,200W lights. Now there's Tornado 2050, providing optimum lifetime and operating conditions for smaller lights. Any climate. Anywhere.

Tornado 2050

Globe diameter: 24"/610
Base Material: Fiberglass
Orientation: ↑ ↓ →
Fixture Power: 400W
Control: DEC3.2™
Part #s:
2050.IN 230V
2050.US 208V*
Suffix H Horizontal

Tornado 2060

Globe diameter: 24"/610
Base Material: Fiberglass
Orientation: ↑ ↓ →
Fixture Power: 400W
Control: Fan only
Part #s:
2050.IN 230V
2050.US 208V*
Suffix H Horizontal

Standard base color is silver. Other colors available to order.

** 120V available to order*

Twister Ultra - Compact Moving Light Enclosures



"Shrink me" read Alice — Hmm, I wonder?". So Tempest announces Twister. Simple, fan-cooled outdoor enclosures for the latest really tiny moving head lights. Now you can stay inside your outside budget, and have more lights too!

Twister 1800

Globe diameter: 16"/405
Base Material: Aluminum
Orientation: ↑ ↓ →
Fixture Power: 200W
Control: Fan only
Part #s:
1800.IN 230V
1800.US 120V

Twister 1900

Globe diameter: 24"/610
Base Material: Aluminum
Orientation: ↑ ↓ →
Fixture Power: 300W
Control: Fan only
Part #s:
1900.IN 230V
1900.US 120V

Twister standard base color is black. Other colors to order.

Hurricane 1000 Moving Mirror Enclosures

They'r back, and they're big! With the new Cyber 2.0, High End Systems and Tempest Lighting have teamed up to bring you the brightest outdoor scanner in the world.

Re-tooled and re-powered for todays potent moving mirror lights, the new Hurricanes feature more space, more powerful fans, and of course the state-of-the-art Tempest

DEC3.2™ control system.
You're in safe hands.

Hurricane 1000

Cover and Cowl: Fiberglass
Base Material: Aluminum
Orientation: ↑ ↓ →
Fixture Power: 2,000W
Control: DEC 3.2
Part #s:
1000.IN 230V
1000.US 208V

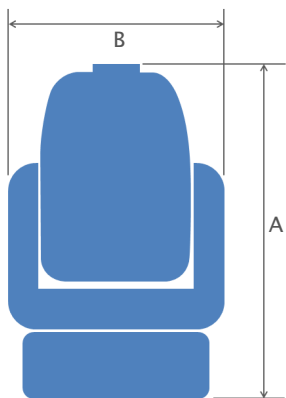




Universal City Walk,
Hollywood.
Tempest Tornado 2050
enclosures with MAC301 LED
wash lights.
Design by Justin Read,
Lightswitch.



Which Enclosure?



Enclosure	Max Dimension A		Max Dimension B		Max Lamp Power	Orientation
Twister 1800	14.0"	355	10.0"	255	200 watts	↑ ↓ →
Twister 1900	18.0"	457	15.0"	381	300 watts	↑ ↓ →
Tornado 2050	25.0"	635	17.0"	432	400 watts	↑ ↓ →
Tornado 2000	30.0"	762	23.0"	585	800 watts	↑ ↓ →
Tornado 2200	37.0"	940	23.0"	585	800 watts	↑ ↓ →
Tornado 2300	37.0"	940	23.0"	585	1,500 watts	↑ ↓ →
Tornado 2400	43.0"	1092	29.0"	737	2,500 watts	↑ ↓



If in doubt, please contact us. We will be happy to recommend the correct enclosure for your light or projector.

All specifications are subject to change without notice. Latest information is available at our web site.

Digital Enclosure Control

DEC3.2™ – that's Digital Enclosure Control, 3rd Generation (revision two if you're following closely!) – takes enclosure control to the next level. DEC3.2 is an entirely new controller, featuring high-reliability surface-mount electronics, extreme heavy-duty switching components, and a handy waterproof user control panel on the outside of the enclosure. DEC3.2 offers communication via DMX and RDM, or may be used in its entirely automatic standalone operating mode. DEC3.2 monitors internal temperature, humidity and lamp current at all times, and uses this information to control its lamp relay, fans and heaters, and report back over RDM if desired.

DEC3.2 works right out of the box – if you don't want to play with its default settings, you don't need to. DEC3.2's mission is to maintain temperature and humidity inside the enclosure within the 'Goldilocks' band – never too hot, never too cold, and never, ever, allowing deadly condensation to form. Condensation is fatal to electronic equipment, particularly in polluted areas or saline environments, where it brings not only rust and short-circuits, but also a steady buildup of mineral and salt deposits. Incidentally, this is very hard to control with air-conditioning type cooling systems, which is why we don't use them.

DEC3.2's function depends on whether the projector lamp is on or off:

Lamp ON

When the projector/fixture is running, the heat from the lamp takes care of humidity, and DEC3.2 runs the enclosure's fan to change its air every few seconds – ensuring minimal temperature rise above outside ambient.

Lamp OFF

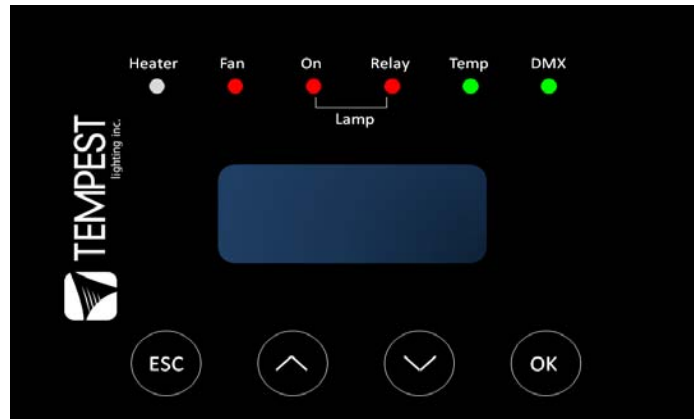
When the lamp is off, DEC3.2 goes to work. When conditions are within normal bounds, DEC 3.2 pulses the heater at a low level to prevent condensation, and gently changes the enclosure air every 30 seconds or so. We call this 'pulse mode', and it is the key to preventing damaging condensation inside your equipment.

If the temperature rises above the top set limit, DEC3.2 runs the fans to cool it down. In cold conditions, DEC3.2 will run the heater as required to maintain the bottom set temperature.

And while doing all of this, DEC3.2 can tell you what's happening over an RDM network – a real boon in larger installations.

DEC3.2 is why, again and again, users around the world have chosen Tempest enclosures to protect their investment in Lighting and projection equipment.

Tempest Lighting and DEC3.2 – A combination that keeps you looking good, and protects your investment.



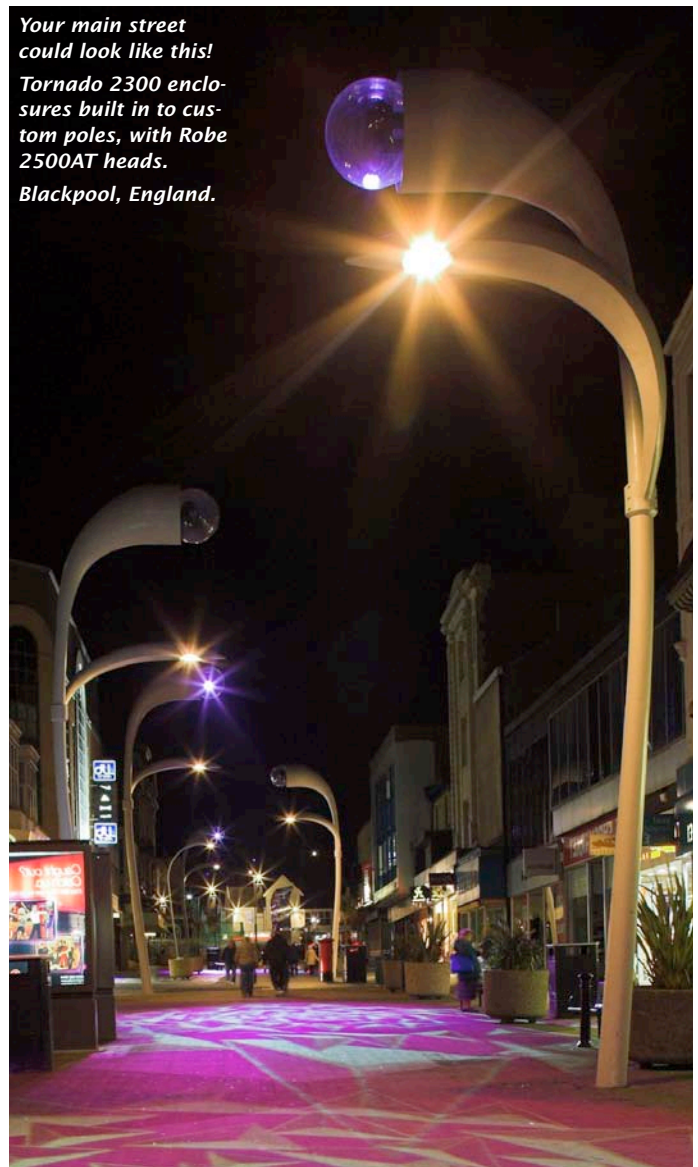
DEC3.2's user interface is easy to use and easy to read.

LED indicators show the status of all major functions, and the display shows DMX address, temperature, humidity and any error messages you need to know about.

Use the simple menus to optimize temperature and humidity settings, set DMX address, view and reset lamp hour counter, and more.

And now DEC3.2 electronics are conformally resin-coated for ultimate durability in adverse conditions.

Your main street could look like this! Tornado 2300 enclosures built in to custom poles, with Robe 2500AT heads. Blackpool, England.



Fixed Lighting Enclosures



Wiener Stadtpark Restaurant, Vienna, Austria.
Lighting Innovation Inno 4 fixtures in Storm enclosures. Lighting design by Victoria Coeln.

Storm 5000 Series Lighting Enclosures

The original and still the greatest! These stylish ellipsoidal enclosures are sculpted from corrosion-resistant fiberglass, and hand-finished to your color specification. The two versions accommodate standard fixed-beam spotlights up to 10", and 750W lamp power.



Storm 5050 Enclosure

Storm 5000 Series

Construction: Fiberglass
Finish: Enamel
Orientation: ↑ ↓ (Yoke)
Fixture Power: 750W
Control: Fan-only

Part #:	Typical Luminaire
5000	10° Ellipsoidal
5050	19-50° Ellipsoidal
	Rosco X-Effect
Suffix:	.IN 230V
	.US 120V

Thunder 6600 Series Lighting Enclosures

Now you can use Lekos, profiles, scans and pattern projectors, in fact just about any conventional stage lighting fixture, outside, in any weather – and without breaking the bank... Thunder is easy to hang, stand, pole-mount, wall-mount – whatever, wherever. There is a Thunder enclosure for just about any conventional theatrical luminaire, and we have made custom Thunders for all kinds of lights, even 2.5kW HMI's.

Thunder is normally supplied as force-cooled only, but for higher value equipment we are able to offer DEC3.2 control on request.

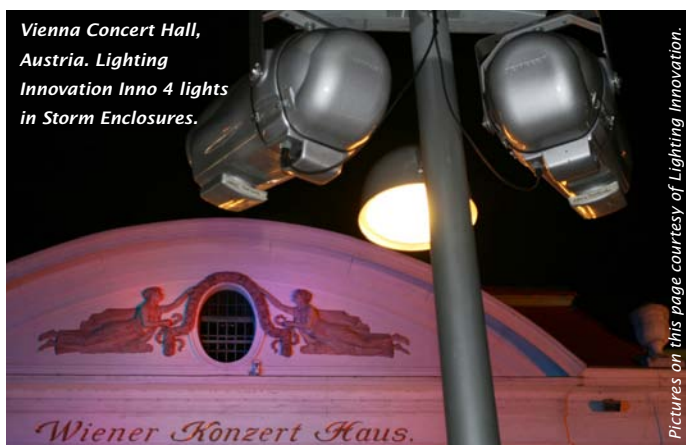


Thunder 6600 Series

Construction: Aluminum
Finish: Epoxy
Orientation: ↑ ↓
Fixture Power: 1,300W
Optional: 2,500W
Control: Fan-only
Optional: DEC3.2™

Part #:	Typical Luminaire
6600	19-50° Ellipsoidal
6600S	Atomic Strobe
6690	Rosco X-Effect
6700	10° Ellipsoidal, RJ Quincy, Aledin
6800	5° Ellipsoidal, VIP Pattern projector
Suffix:	.IN 230V
	.US 120V

Thunder enclosures are built from aluminum and stainless steel, and are extremely corrosion resistant. They are finished with a marine-grade epoxy powder coat primer and attractive light bronze top coat. Custom colors are available to special order. Thunder enclosures are spacious, with plenty of room (and a separate DMX cable entry) for accessories.



Vienna Concert Hall, Austria. Lighting Innovation Inno 4 lights in Storm Enclosures.

Wiener Konzert Haus.

Pictures on this page courtesy of Lighting Innovation.

Projector Enclosures

Zacatecas, Mexico.

Valy Tremblay, of Proluxon, Montreal, transformed this historic church with an amazing projection show using six Christie projectors and six Tempest Cyclone enclosures (three of them below).

Pictures courtesy of Valy Tremblay.



Cyclone 8000 Series Projector Enclosures



Cyclone 8000 Series projector enclosures are designed specifically for the largest digital projectors, and come with Tempest's patented DEC3.2™ Digital Enclosure Control technology, to maintain optimum projector and lamp life in the harshest conditions. Cyclone sets the standard for engineering quality, elemental protection, low maintenance, and long equipment life. Cyclone is available in

three sizes, accommodating a range of large-format projectors up to 35,000 ANSI Lumens. Tempest's patented control system offers intelligent control of temperature, airflow and humidity, maintaining optimum operating temperature in all climate conditions, and eliminating deadly condensation. All Cyclone enclosures feature easy access for relamping – the whole projector slides out for complete accessibil-

ity – and tempered, optical glass projection windows. Your projector is a big investment. Cyclone protects that investment, typically enabling longer lamp and equipment life outdoors than in many projection booths.

Cyclone, by Tempest – world leader in outdoor enclosures. Nothing else comes close, when it comes to protecting your projection investment.

Ultimate protection for your high-power digital projector for use outdoors, and in smoke or dust inside. Cyclone enclosures are semi-custom, and are tailored to the projector type used. Cyclone models are available for projectors from 12,000 to 35,000 ANSI Lumens ↓

For smaller and midsize projectors, the Blizzard line offers the same protection at a commensurate mid-range price point →

Cyclone 8000

Orientation:	May be set or hung	
Projector Power:	2,500W	
Control:	DEC3.2™	
Typical ANSI:	12-16,000	
Part #s:		
	8000.IN	230V
	8000.US	208V

Cyclone 8200

Orientation:	May be set or hung	
Projector Power:	4,000W	
Control:	DEC3.2™	
Typical ANSI:	16-20,000	
Part #s:		
	8200.IN *	230V
	8200.US *	208V
	8210.IN **	230V
	8210.US **	208V

* Christie Roadster and similar
** Barco FLM and similar

Cyclone 8400

Orientation:	May be set or hung	
Projector Power:	7,000W	
Control:	DEC3.2™	
Typical ANSI:	30-35,000	
Part #s:		
	8400.IN *	230V
	8400.US *	208V
	8410.IN **	230V
	8410.US **	208V

* Christie Roadie and similar. Ballast is housed separately.
** Barco XLM and similar



Blizzard 6500 Series Projector Enclosures



Tempest Blizzard Projector Enclosures are designed for midrange Digital Projectors, and are equipped with Tempest Lighting's patented Digital Enclosure Control (DEC3.2™) technology to maintain optimum projector and lamp life in the harshest conditions. Blizzard is available in four sizes, accommodating a range of

medium-sized projectors up to 16,000 ANSI Lumens. Tempest's enclosure control System offers intelligent control of temperature, airflow and humidity, maintaining optimum operating temperature in all climate conditions, and eliminating deadly condensation. All Blizzard enclosures feature easy access for relamping, and

tempered, optical glass projection windows. **Indoor Noise Control** The Blimp Kit is used for attenuating projector fan noise in acoustically sensitive locations like classrooms and live theatres. The Blimp Kit, used with a fan-only Blizzard enclosure, includes acoustic insulation inside the enclosure, and the enclosure fan is supplied at the end of a 25'/8m insulated hose, for location in a ceiling void or outside wall.



Baby Blizzard

Orientation:	↑ ↓
Projector Power:	600W
Control:	DEC3.2 ^M
Typical ANSI:	3-5,000
Part #s:	
6510.IN	230V
6510.US	120V
6505.IN *	230V
6505.US *	120V

* Low noise version. Max 300W

Blizzard

Orientation:	↑ ↓
Projector Power:	1,000W
Control:	
6550	DEC3.2 ^M
6560	Fan-only
Typical ANSI:	5-10,000
Part #s:	
6550.IN	230V
6550.US	120V
6560.IN	230V
6560.US	120V

Blizzard Stretch

Orientation:	↑ ↓
Projector Power:	2,000W
Control:	
6555	DEC3.2 ^M
6565	Fan-only
Typical ANSI:	10-15,000
Part #s:	
6555.IN	230V
6555.US	120V *
6565.IN	230V
6565.US	120V *

* Specify 120V or 208-240V when ordering

Blizzard X-Stretch

Orientation:	↑ ↓
Projector Power:	2,000W
Control:	
6556	DEC3.2 ^M
6566	Fan-only
Typical ANSI:	10-16,000
Part #s:	
6556.IN	230V
6556.US	120V *
6566.IN	230V
6566.US	120V *

* Specify 120V or 208-240V when ordering

Which Enclosure?

Not sure? Need something custom? Call us, or email info@tempestlighting.com with your projector make and model #.



Tip: Be sure to allow for the lens, and any connectors and cables when calculating enclosure size!

Enclosure	Max Dimension A		Max Dimension B		Max Dimension C		Max Watts
Baby Blizzard	17.0"	430	17.0"	430	7.0"	180	600 watts
Blizzard 6550/6560	24.0"	610	26.0"	660	10.0"	255	1,000 watts
Blizzard 6555/6565	35.0"	890	26.0"	660	12.0"	305	2,000 watts
Blizzard 6556/6566	42.0"	1070	26.0"	660	12.0"	305	2,000 watts
Cyclone 8000	35.0"	890	26.0"	660	17.0"	430	3,000 watts
Cyclone 8200	45.0"	1145	28.0"	710	19.0"	485	4,500 watts
Cyclone 8210	49.0"	1245	32.0"	815	23.0"	585	4,500 watts
Cyclone 8400	62.0"	1575	30.0"	760	25.0"	635	7,000 watts

www.tempestlighting.com

Blizzard Blimp Kits

Remote Fan Hose	25'/8m
Acoustic lining:	1"/25mm
Part #s:	For:
6500.BK	6560
6500.BK2	6565, 6566



TEMPEST

lighting inc.

picture courtesy of Vally Tremblay, Proluxon, Montreal



www.tempestlighting.com

info@tempestlighting.com